S. DEPARTMENT OF LABOR Occupational Safety and Health Administration

Form Approved OMB No. 44-R1387

FEB 0 9 1982

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing, Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I	DPM 5376
MANUFACTURER'S NAME	EMERGENCY TELEPHONE NO.
SULLIVAN CHEMICAL CO., INC. ADDRESS (Number, Street, City, State, and ZIP Code)	(213) 435-2332
ADDRESS (Number, Street, City, State, and ZIP Code) 1470 West Ninth St. Long Beach, CA, 9081	3
Sodium Hydroxide-Sodium Nitrate-Chloride	SUL-KEM 74PS & 7301
Caustic Nitrate	
Caastro Micrace N	aOH·NaNO3NaCl

SECTION	۱۱۱ -	HAZAI	RDOUS INGREDIENTS		
PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURE	SOF	THER LI	QUIDS, SOLIDS, OR GASES	%	TLV (Units)
Sodium Hydroxide Col.	Μ.				NA
Sodium Nitrate OXI	DIZE	.R	Proprietary Information		NA
Sodium Chloride					NA

	SECTION III -	PHYSICAL DATA	9
BOILING POINT (°F.)	NA	SPECIFIC GRAVITY (H ₂ O=1)	
VAPOR PRESSURE (mm Hg.)	NA	PERCENT, VOLATILE BY VOLUME (%)	NA
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE (=1)	NA
SOLUBILITY IN WATER	Hydros	copic	
APPEARANCE AND ODOR Odor]	ess white p	owder, flake or bead	

And the second of the second o					
SECTION IV - FIRE AND EXPLOSION HAZARD DATA					
FLASH POINT (Method used) NA	FLAMMABLE LIMITS NA	Lei Vei			
EXTINGUISHING MEDIA Use large quantities of water on fires involving sodium nitrate					
SPECIAL FIRE FIGHTING PROCEDURES Contains sodium nitrate which will supply oxygen to a fire, thus					
suffocating-type extinguishers are of little value					
UNUSUAL FIRE AND EXPLOSION HAZARDS SUL-KEM 74-PS will not burn or explode but will promote combustion					
in combustible materials.					

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(Continued on reverse side)

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SECTION V - HEALTH HAZARD DATA
THRESHOLD LIMIT VALUE Airborne dust 2mg/m ³
Contact with skin, eyes or mucous membranes will cause severe burns
EMERGENCY AND FIRST AID PROCEDURES Flush areas of contact with water for fifteen minutes. Remove
contaminated clothing and do not re-use until thoroughly washed.
In case of eye contact, see physician immediately.
SECTION VI. BEACTIVITY DATA

SECTION VI - REACTIVITY DATA					
STABILITY UNSTABLE			CONDITIONS TO AVOID		
	STABLE		Х		
INCOMPATABILITY (Materials to avoid) Combustible and reducing agents.					
HAZARDOUS DECOMPOSITION PRODUCTS Oxygen and nitrogen oxides when sufficiently aerated.					
1		MAY OCCUP		CONDITIONS TO AVOID	
POLYMERIZATION		WILL NOT OCCUR		X	

SECTION VII - SPILL OR LEAK PROCEDURES
steps to be taken in case material is released or spilled Flake or powder can be shoveled up, followed by a flushing with
water and dilute acid (preferably acetic)
WASTE DISPOSAL METHOD Discharge into sump to be neutralized (if liquid). Solid material
should be put in drums and sent to a chemical dump.

. "	SECTION VIII - SPECIAL P	ROTECTION IN	IFORMATION	
RESPIRATORY PR	otection (Specify type) ventilation for dust sho	ould be pro	vided	
VENTILATION	LOCAL EXHAUST		SPECIAL	
YES	MECHANICAL (General)		OTHER	. •
PROTECTIVE GLOVES Rubber gloves		Face shields should be worn		
OTHER PROTECTIVE EQUIPMENT				

SECTION IX - SPECIAL PRECAUTIONS				
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store in dry area to avoid				
moisture pick-up other precautions Dô not add wet or damp salt to the molten bathh				

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HAZARD INFORMATION ON CAUSTIC ALKALI COMPOUNDS

Chemical Reactivity Data

Stable: Yes

Selfpolymerize: No

Hazardous Decomposition Products: None

Avoid Contacts with These Materials:

When handling flake caustic, avoid contact with such materials as aluminum, leather, wool, tin and zinc and alloys containing these metals.

Conditions to Avoid:

Avoid handling conditions which may allow for leaks and spills of caustic soda. Do not permit personnel to handle caustic soda without proper training or to work without protective equipment.

Health Hazards

Caustic soda and caustic potash are strong alkali and are dangerous when improperly handled. The solid caustic and concentrated solutions are destructive to tissues which they may contact, producing severe burns. Contact with the eyes, either in solid form or in solution, causes severe damage to the eye. Inhalation of the dust or mist of this compound is capable of causing injury to the entire respiratory tract. Swallowing usually results in severe injury.

First Aid Procedures

Ingestion:

Ingestion of caustic causes severe burns of mucous membranes of the mouth, throat, esophagus and stomach. Dilution of the chemical by drinking large quantities of water or milk may be attempted. After this, dilute vinegar or fruit juice may be given to accomplish neutralization. Vomiting may occur spontaneously, but should not be induced nor should stomach tube be used except on advice of physician.

Inhalation:

If discomfort is experienced from exposure to caustic mist or dust, the employee should leave the contaminated atmosphere until proper ventilation is restored and report for medical evaluation.

Skin Contact:

Wash skin area with large quantities of water. Continue washing for as long as 1 - 2 hours or until medical helf arrives. No salves/ointments should be used on chemical burns for at least 24 hours. Clothing/shoes wetted with caustic should not be worn until after they have been thoroughly washed and decontaminated. A physician should see all cases other than minor exposures.

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Contact with Eyes:

If even minute quantities of caustic, solid or solution, enter the eyes, they should be irrigated immediately with copious water for a minimum of 15 minutes. Eyelids should be held apart while patient rolls eyes in circular motion during irrigation to insure contact with all tissues of eye and lid. A physician should be called in attendance at the first possible moment.

Personal Protective Equipment

Chemical Safety Goggles:

Plastic or rubber frames equipped with resistant glass or plastic lens.

Face shields:

Plastic shields may be worn in addition to goggles.

Eye wash fountains and safety showers must be immediately available. Hard hats should be worn where there is danger from falling objects. Safety shoes or rubber boots should be worn when handling caustic soda.

Fire and Explosion

General:

Caustic soda and caustic potash are non-combustible. SUL-KEM products, however, usually contain nitrate which will support combustion by supplying oxygen. Suffocating type extinguishers are of little value in fires containing nitrate.

Fire Fighting (Procedure, Equipment):
Caustic soda is non-combustible. However, fire extinguishing
equipment and adequate water for fire fighting should be available
to workmen in all process or storage areas for welding jobs and
where combustible material of any kind is present. Workmen should
be trained to prevent welding fires by thoroughly wetting down
wooden scaffolds and tarps.

Spills and Leaks

Wherever caustic is stored, unloaded, handled or used, abundant water, preferably running water, should be available for emergency use in dissolving or diluting and flushing away spilled caustic. Spilled solid forms of caustic may be shoveled up, followed by flushing with water. Dilute acid, preferably acetic acid, may be used to neutralize the final traces of caustic immediately after flushing. Washing or mopping similar leaks may be followed by a liberal covering of sodium bicarbonate for removing the last traces of caustic.

Waste Disposal

Waste disposal of caustic soda depends to a great extent upon local requirements. Be sure that all federal, state, and local regulations regarding health and pollution are followed.

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PRODUCT DATA-

Waste caustic soda solution should not be discharged directly into sewers or streams. The caustic soda should first be converted to a neutral salt, as by neutralization with acid, and then well diluted with water.

Strong alkali tends to diminish bacterial activity needed for proper sewage disposal by increasing the alkalinity to unfavorable levels.

In the event of accidental spillage, advise the municipal sewage plant if the discharge will enter a municipal system or the state water pollution control board if the chemical will be discharged into state waters.

Disposal and Return Procedures (Returnable Containers)

Returnable containers should be shipped in accordance with the supplier's recommendations. Return shipment should comply with all federal, state, and Department of Transportation regulations.

Non-Returnable Containers

All residual caustic soda should be removed from the container prior to disposal.

Special Handling and Storage Procedures

The Department of Transportation has proposed an amendment to their regulations which will classify flake caustic soda as corrosive. Personal protective clothing and handling equipment should be used when handling flake caustic. Storage should be provided in an area which will not allow pick up of moisture.

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DULLIVAN

P.O. BOX 115

STERLING HGT'S, MI. 48078

[INC. (313) 731-0793

1470 W. NINTH ST. LONG BEACH; CA. 90813 (213) 435-2332

November 3, 1978

DOUGLAS AIRCRAFT COMPANY 3855 Lakewood Blvd. Long Beach, California

Attn: Mr. W. T. Jordan, Dept. C1-725

Materials Handling & Packaging Engineering

Gentlemen:

In reply to your request of October 19, 1978, we furnish the following:

- (1) DOT Proper Shipping Name
 The 74 PS is a mixture of Sodium Hydroxide
 (Corrosive Material-NOS) and Sodium Nitrate
 (Oxidizing Material-NOS). Since the primary
 Hazard Material is the Oxidizer, the DOT Proper
 Shipping Name is "OXIDIZING MATERIALS-NOS".
- (2) DOT Hazard Classification

 Both Oxidizing and Corrosive Labels are required on the package with an Oxidizing placard required on the truck.
- (3) IATA Number
 None Known, Never shipped by air

Enclosed please find an OSHA Form 20, Material Safety Data Sheet with supplimental information.

If you need further information please contact the writer at your convenience.

DPM 5376

Very truly yours,

SULLIVAN CHEMICAL COMPANY, INC.

DAVID F. LOW, President

Encl.

DFL/bm

DLP 74PS ORGANIC STRIPPING SALT

PRODUCT DESCRIPTION

DLP 74PS is a precisely formulated mixture of chemicals designed for optimum efficiency in removal of organic materials through thermal decomposition. The stripping salt consists of an alkali base with a major oxidizing component and a minor additive to improve viscosity.

PRODUCT APPLICATION

DLP 74 PS is used to decompose thermally any combinations of organic materials. The process consists of a highly controlled temperature gradient burning in which the organic is oxidized (burned) while at the same time the temperature of the metal parts involved is limited to less than 1000°F. Thermal distortion of the metal parts is thus held to an absolute minimum.

DLP 74PS can be successfully used for removal of almost any organic material such as acrylic, alkyd, epoxy, vinyl, plastisol, as well as finishes containing metallics. The synthetic fibers can also be decomposed in these salts.

DLP 74PS PHYSICAL PROPERTIES

Melting	point	550°F		
Weight	Solid Liquid	135 Lbs./cu. ft. 106 Lbs./cu. ft.		
Specific	c heat	0.5		
Heat of	fusion	72 BTU/1b.		
Operation	ng Range	700°F to 1000°F		

NINTH STREET, LONG BEACH,

HAZARD DATA

DLP 74PS contains sodium hydroxide and should be handled with extreme caution at all times. In addition when it is molten all precautions common to the handling of high temperature heat treating materials should be followed. As considerable fume and flame result from the stripping operation this should be done only in suitable equipment designed specifically for this purpose.